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of life in the northern hemisphere in the Quaternary so different from that of the Tertiary.

The only European naturalist, so far as we are aware, who has insisted on the independent origin of the different continental floras and faunas is Professor Carl. Vogt, in a recent article published in Westermann's *Monatshefte*, where he vigorously discusses the subject, and claims that the monogenists, or those who believe that different types have arisen from a single individual, are in the wrong; that different continents may have simultaneously produced representatives or similar species; and that we should not accept a single center of creation for all faunas.

Naturalists are again indebted to Mr. Wallace for an original work in a field which he has gleaned so successfully, bringing back to the storehouse of science a sheaf of genuine facts abounding with ripe inductions and containing but little chaff.

RECENT BOOKS AND PAMPHLETS.—I Diaspri della Toscana e I Loro Fossili. Memoria dell Dott. Dante Pantanelli. (Reale Accademia dei Lincei, 1879-80.) 4to, pp. 34, 1 plate. Rome, 1880. From the author.

Gli Strati a Congerie e le Marne Compatte Mioceniche dei Dintorni di Ancona. (Reale Accad. dei Lincei, 1878-79.) pp. 26, 3 plates. Rome, 1879.

Calenottera Fossile delle Colombaie presso volterra. (Reale Accad. dei Lincei, 1878-79.) pp. 8. Rome, 1879.

Breccia Ossifera della Caverna di Santa Teresa nel lato orientale del Golfo di Spezia. By Prof. G. Capellini. 4to, pp. 26, 3 plates. Bologna, 1879. From the author.

Remarks on *Bathynathus borealis*. By Joseph Leidy, M.D. (Ext. from Journ. Acad. Nat. Sciences, Phila., Vol. VIII.) 4to, pp. 3. 1881.

Parasites of the Termites. By Joseph Leidy, M.D. (From Journ. Acad. Nat. Sci., Vol VIII.) pp. 25, 2 plates. 1881. From the author.

Descripcion de la Ciudad de Guadalajara por Mariano Barceña. 8vo, pp. 123. Mexico, 1880. From the author.

Naturforskeren Peter Wilhelm Lund. Af J. Reinhardt. 8vo, pp. 64. Copenhagen, 1880. From the author.

Revisio Piscium Cubensium por Don Felipe Poey. (Anal. de la Soc. Esp. de Hist. Nat., Tomo IX, 1880.) 8vo, pp. 19, 5 plates. From the author.

Is Darwin Right? or, The Origin of Man. By Wm. Denton. 12mo, pp. 193. Wellesley, Mass., 1881. From the author.

New and little known Reptiles and Fishes in the Museum Collections. By Samuel Garman. (From Bull. Museum Comp. Zool., Vol. VIII, No. 3.) pp. 8. 1881. From Alexander Agassiz.

Bulletin of the United States Geological and Geographical Survey of the Territories, Vol. VI, No. 1. 8vo, pp. 202. Washington, Feb. 26th, 1881. From the Survey.

A partial biography of the Green Lizard. By Sarah P. Monks. (From the Am. Nat., Feb., 1881.) pp. 4. From the authoress.

Archæopteryx macrura, an intermediate form between Birds and Reptiles. By Carl Vogt. pp. 22, 1 pl. From the translator.

Geological Survey of Canada. Report of Progress for 1878-1879. By A. R. C. Selwyn, director. pp. 380, plates and maps. Montreal, 1880. From the director.

Corals and Bryozoa of the Neozoic Period in New Zealand, By J. E. Tenison-Wood. (From Palæontology of New Zealand. Pt. IV.) pp. XVI, 34, 4 plates. Wellington, 1880. From the author.

On a Post-tertiary Fauna from the Stream-tin deposits of Blitong (Biliton). By Dr. K. Martin. (From "Notes from the Leyden Museum, Vol. III.") 8vo, pp. 6, Nov. 1880. From the author.

Methods for judging of the Wholesomeness of Drinking Water. By Reuben Haines. (From Journ. Franklin Inst., Feb., 1881. pp. 17. From the author.

Proceedings of the Poughkeepsie Society of Natural Science, from Oct. 1, 1879, to July 1, 1880. 4to, pp. 21. From the society.

Description of two new species of Scopeloid Fishes, *Sudis ringens* and *Myctophum crenulare*, from Santa Barbara channel, California, pp. 8.—

Description of seven new species of Sebastoid Fishes from the Coast of California. pp. 12.—

Description of a new Embiotocid (*Abeona aurora*) from Monterey, California, with notes on a related species. pp. 3.—

Description of a new Flounder (*Platysomatichthys stomias*) from the coast of California. pp. 2.—

Description of a new species of *Paralepis* (*Paralepis coruscans*), from the Straits of Juan de Fuca. pp. 3.—

Description of a new Scorpaenoid Fish (*Sebastichthys proriger*) from Monterey bay, California. pp. 5. By David S. Jordan and Charles H. Gilbert. (From Proc. United States Nat. Mus., 1880.) From the authors.

Note on a new Flat-fish (*Lepidopsetta isolepis*) found in the markets of San Francisco. By W. N. Lockington. (From Proc. U. S. Nat. Mus., 1880.) 1 page. From the author.

Note on a forgotten paper of Dr. Ayres and its bearing on the nomenclature of the Cyprinoid Fishes of the San Francisco markets. By D. S. Jordan. pp. 2. From the author.

Description of a new species of *Icterus* from the West Indies. By Geo. N. Lawrence. (From Proc. U. S. Nat. Mus., 1880.) pp. 1. From the author.

Report on the Marine Isopoda of New England and adjacent waters. By Oscar Harger. (From the Rep. U. S. Com. of Fish and Fisheries for 1878.) pp. 62, plates 13. From the author.

Etude des Mammifères Fossiles de Saint-Gérard le Puy (Allier). Par M. H. Filhol. Pt. I, 1879, Pt. II, 1880. From the author.

Observations sur le Genre *Proailurus*. Par M. H. Filhol. 4to, pp. 46, plates 5. From the author.

Pueblo Pottery. By F. W. Putnam. (From Amer. Art Review, Feb., 1881.) 4to, pp. 4, 1 plate. From the author.

Description of the preparatory stages of *Papilio philenor* Linn. By W. H. Edwards. (Ext. Can. Ent., Jan., 1881.) pp. 9-14. From the author.

Proceedings of the Poughkeepsie Society of Natural Science, from Oct. 1, 1879, to July 1, 1880. pp. 1-21. From the society.

Mittheilungen der Schweizerischen Entomologischen Gesellschaft, Vol. VI, heft no 2. Schaffhausen, 1880.

Contributions to the Anatomy of the milk-weed Butterfly, *Danaus archippus* (Fabr.). By Edward Burgess. (From the Anniversary Memoirs of the Boston Society of Natural History, Boston, 1880.) 4to, pp. 16, pl. I, II. From the author.

First Annual Report of the Board of State Viticultural Commissioners (California). Containing the First Report of the Committee on the Phylloxera, Vine Pests and the Diseases of the Vine. With Appendices A. to J. pp. 1-82. San Francisco, 1881.

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GENERAL NOTES.

BOTANY.¹

A REFORMED SYSTEM OF TERMINOLOGY OF THE REPRODUCTIVE ORGANS OF THE THALLOPHYTES.—At the Swansea meeting of the British Association in August, 1880, Professor A. W. Bennett and

¹ Edited by PROF. C. E. BESSEY, Ames, Iowa.